



Food and Drug Administration
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July 2, 2015

CareFusion
Joy Greidanus
Regulatory Affairs Manager
75 North Fairway Drive
Vernon Hills, IL 60061

Re: K141965
Trade/Device Name: Pleurx Pleural Catheter System
Regulation Number: 21 CFR 870.5050
Regulation Name: Patient Care Suction Apparatus
Regulatory Class: Class II
Product Code: DWM
Dated: June 30, 2015
Received: July 1, 2015

Dear Ms. Greidanus:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA).

You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must

comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

<http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm> for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

<http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm>.

Sincerely yours,

Tejashri Purohit-Sheth, M.D.

Tejashri Purohit-Sheth, M.D.
Clinical Deputy Director
DAGRID/ODE/CDRH FOR

Erin I. Keith, M.S.
Director
Division of Anesthesiology, General Hospital,
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Center for Devices and
Radiological Health

Enclosure

Indications for Use

510(k) Number (if known)

K141965

Device Name

Pleurx Pleural Catheter System

Indications for Use (Describe)

The Pleurx Pleural Catheter Kits are indicated for intermittent, long term drainage of symptomatic, recurrent, pleural effusion, including malignant pleural effusion and other recurrent effusions that do not respond to medical management of the underlying disease. The devices are indicated for 1) the palliation of dyspnea due to pleural effusion and 2) providing pleurodesis (resolution of the pleural effusion).

The Pleurx Drainage Kits and Drainage Line Set are indicated for use only with the Pleurx Catheter for intermittent drainage. The Drainage Line Kit is used to drain fluid using standard wall suction, water seal drainage system, vacuum bottle or other appropriate method.

The Pleurx Catheter Access Kit is intended to provide access to the Pleurx Catheter to inject or withdraw fluids

Type of Use (Select one or both, as applicable)

☒ Prescription Use (Part 21 CFR 801 Subpart D)

☐ Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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510(k) SUMMARY K141965

A summary of 510(k) safety and effectiveness information in accordance with 21 CFR 807.92.

SUBMITTER INFORMATION	
Name	CareFusion
Address	75 North Fairway Drive, Vernon Hills, IL 60061 USA
Phone number	(847) 362-8103
Fax number	(312) 949-0583
Establishment Registration Number	1423507
Name of contact person	Joy Greidanus
Date prepared	July 2, 2015
DESCRIPTION OF DEVICE	
Trade or proprietary name	Pleurx Pleural Catheter System
Common or usual name	Pleural Drainage Catheter
Classification name	Patient Care Suction Apparatus
Classification panel	Anesthesiology
Regulation	Class II per 21CFR §870.5050, Procode DWM
Product Code(s)	Multiple
Legally marketed device(s) to which equivalence is claimed	CareFusion Pleurx Catheter System: K121849
Reason for 510(k) submission	Updates to labeling to include the use of sclerosing agents Talc and Bleomycin with the Pleurx Pleural Catheter System.
Device description	The Pleurx Pleural Catheter System provides patients with a convenient method to relieve pleural effusion symptoms at home. The primary components of the Pleurx Catheter System are the Pleurx Pleural Catheter and the Pleurx Drainage Kits.
Intended use of the device	<p>The Pleurx Pleural Catheter Kits are indicated for intermittent, long term drainage of symptomatic, recurrent, pleural effusion, including malignant pleural effusion and other recurrent effusions that do not respond to medical management of the underlying disease. The devices are indicated for 1) the palliation of dyspnea due to pleural effusion and 2) providing pleurodesis (resolution of the pleural effusion).</p> <p>The Pleurx Drainage Kits and Drainage Line Set are indicated for use only with the Pleurx Catheter for intermittent drainage. The Drainage Line Kit is used to drain fluid using standard wall suction, water seal drainage system, vacuum bottle or other appropriate method.</p> <p>The Pleurx Catheter Access Kit is intended to provide access to the Pleurx Catheter to inject or withdraw fluids.</p>

	The predicate Catheter Access Kit indication is for aspiration and catheter maintenance. This intended use was expanded to include injection or withdrawal of sclerosing agents; Talc and Bleomycin. This change was validated through biocompatibility testing and bench testing.	
SUMMARY OF THE TECHNOLOGICAL CHARACTERISTICS OF THE DEVICE COMPARED TO THE PREDICATE DEVICE		
Characteristic	New Device	Predicate
Catheter Description	Internal: fenestrations, radiopaque markings & cuff External: valve	Same as predicate: CareFusion Pleurx Catheter Systems: K121849
Method	Percutaneously tunneled - indwelling	Same as predicate: CareFusion Pleurx Catheter Systems: K121849
Access Kit Description	Unique access tip, valved closed system to inject and withdraw fluids.	Same as predicate: CareFusion Pleurx Catheter Systems: K121849
Materials of Construction	Silicone, Barium Sulfate, Polyester, Polyisoprene, Polypropylene, Colorant, ABS, Ink, Adhesive	Same as predicate: CareFusion Pleurx Catheter Systems: K121849
CONCLUSION OF DEVICE COMPARISON		
The technological characteristics of the proposed devices are substantially equivalent to the predicate.		
PERFORMANCE DATA		
SUMMARY OF NON-CLINICAL TESTS CONDUCTED FOR DETERMINATION OF SUBSTANTIAL EQUIVALENCE		
Performance Test Summary		
Characteristic	Standard/Test/FDA Guidance	
Biocompatibility	AAMI/ANSI/ISO 10993-1:2009 Biological evaluation of Medical Devices Part 1: Evaluation and Testing	
Biocompatibility	AAMI/ANSI/ISO 10993-3: 2003 (R) 2009 Biological Evaluation of Medical Devices – Part 3 Tests for Genotoxicity, Carcinogenicity and Reproductive Toxicity	
Biocompatibility	AAMI/ANSI/ISO 10993-4: 2002 (R) 2009 Biological Evaluation of Medical Devices – Part 4 Selection of Tests for Interaction with Blood	
Biocompatibility	AAMI/ANSI/ISO 10993-5: 2009 Biological Evaluation of Medical Devices – Part 5 Tests for In Vitro Cytotoxicity	
Biocompatibility	AAMI/ANSI/ISO 10993-6: 2007 (R) 2010 Biological Evaluation of Medical Devices – Part 6 Tests for Local Effects After Implantation	
Residuals	AAMI/ANSI/ISO 10993-7:2008 Biological evaluation of Medical Devices Part 7: Ethylene Oxide Sterilization Residuals	
Biocompatibility	AAMI/ANSI/ISO 10993-10: 2010 Biological Evaluation of Medical Devices – Part 10 Tests for Irritation and Skin Sensitivity	
Biocompatibility	AAMI/ANSI/ISO 10993-11: 2006 Biological Evaluation of Medical Devices – Part 11 Tests for Systemic Toxicity	
Biocompatibility	USP <661> Containers – Plastics, Physiochemical Tests	
Performance	EN 1617:1997 Sterile Drainage Catheters and Accessory Devices for Single Use	
Performance	EN 1618:1997 Catheters Other Than Intravascular Catheters – Test Methods for Common Properties	
Performance	ISO 11070 Sterile, Single-use Intravascular Catheters	

Performance	ANSI/AAMI/ISO 11607-1,2:2006 Packaging for Terminally Sterilized Medical Devices
Performance	ASTM F1980-07 Accelerated Aging of Sterile Barrier Systems
Performance	ISO 11138-1,2:2006 Sterilization of healthcare products - Biological Indicators
Performance	ISO 11737-1,2:2006 Sterilization of Medical Devices – Microbiological Methods Part 1 & 2
Performance	ISO 11135:2007 Medical Device, Validation and Routine Control of Ethylene Oxide Sterilization
Performance	AAMI TIR28:2009 Product Adoption and Process Equivalency for Ethylene Oxide Sterilization
SUMMARY OF CLINICAL TESTS CONDUCTED FOR DETERMINATION OF SUBSTANTIAL EQUIVALENCE AND/OR OF CLINICAL INFORMATION	
N/A – No clinical tests were conducted for this submission	
CONCLUSIONS DRAWN FROM NON-CLINICAL AND CLINICAL DATA	
The results of the non-clinical tests show that the CareFusion Pleurx Pleural Catheter System is as safe, as effective, and performs as well as the legally marketed predicate device.	